Plasticoate® - 808 PUMMA hybrid (USA)

PLASTI CHEMIE
Produktionsgesellschaft mbH

Higher-viscous, ready for use, colored PU-MMA resin with high flexibility at very low temperatures. Used as liquid water-proofing and joint grouting mass for movement joints.

Application:

Coatings based on Plasticoate® 808 excel in high low-temperature flexibility. Plasticoate® 808 is used as waterproofing membrane layer for Plasticoate® coatings and is thus especially appropriate for application in coolers and freezers. Furthermore Plasticoate® 808 may be used as grouting component for movement joints with very good low-temperature flexibility in outside sections. (Ice skating field joints)

Characteristics:

Plasticoate® 808 is a viscous, elasticized PU-MMA hybrid resin with especially high flexibility at very low-temperatures. This resin may be used for constructing membranes and coatings in coolers and freezers as well as for liquid waterproofing and as a joint filler. Together with our PET/SL filler that has been especially developed for this type of resin, the coating will stay more elastic, even at low temperatures. Thus the resin can be used for top car park coatings, bridge deck overlays and pool coatings. The resin can be used also for roofing, inlets and to protect dome lights.

Characteristic data:

Delivery form	liquid, colored
Cure Time	45 - 60 min (68°F)
Density	8.5 lb/gal (68°F)
Flashpoint	50°F
Shelf life	6 months at < 20 °C in original container
Bundle	55.1 lb (25 kg), 22.0 lb (10 kg) pails
Standard Colors	available in all Plasticoate standard RAL colors

Initiator/hardener

Plasticoate® Hardener 50W, depending on temperature

Consumption

15 ft²/gal (2.8 kg/m²) in 2 layers to obtain 1/12″ (2 mm). The minimum thickness of the membrane of 1/24″ (1 mm) approx. 34 ft²/gal (1.2 kg/m²) must be maintained in any case

Processing Notes:

Plasticoate® 808 can be filled as described below with fillers for producing a coating mass that is ready for application.

To adjust flexibility and strength we offer two different filler powders. Plasticoate® s/l PET filler contains a flexible plastic granulate that increase the elongation of the layer. We recommend it for intermediate coatings and waterproofing systems. Plasticoate® s/l filler is a mineral filler system that

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
D – 08223 Falkenstein / Germany
Telefon: +49 (0) 37 45 / 744 32-0
Telefax: +49 (0) 37 45 / 744 32-27
Email: info@plasti-chemie.de
Internet: www.plasti-chemie.de

combines the flexibility of Plasticoate® 808 resin and high impact resistance.

Suggested formulations

808 / 1	Product	Quantity [pbv]	Quantity [gall]
Membrane layer 1/24"-1/12" (1-2 mm)	Plasticoate® 808	80	4
	Plasticoate® s/l Filler	20	1

Coating	Product	Quantity [pbv]	Quantity [gall]
	Plasticoate® 808	50	1
	Plasticoate® s/l Filler	50	1

808 / 2	Product	Quantity [pbv]	Quantity [gall]
Coating, broadcast for 3/16"–5/16" (5 mm - 8 mm)	Plasticoate® 808	50	2
	Plasticoate® s/l Filler	25	1
	Plasticoate® Quartz sand 0.4-0.8 mm	25	1

808 / 3	Product	Quantity [pbv]	Quantity [gall]
Joint grouting	Plasticoate® 808	80	4
	Plasticoate® s/l Filler	20	1

808 /4	Product	Quantity [pbv]	Quantity [gall]
Waterproofing membrane	Plasticoate® 808	60	3
	Plasticoate® PET s/l Filler	40	2

Add 3 - 4 % Plasticoate® Hardener 50 W to each formula (see chart).

Processing:

Recipe 808/1 is applied to the substrate, pre-primed with Plasticoate® 112 N or 116 by using a notched trowel made of metal or MMA durable plastic.

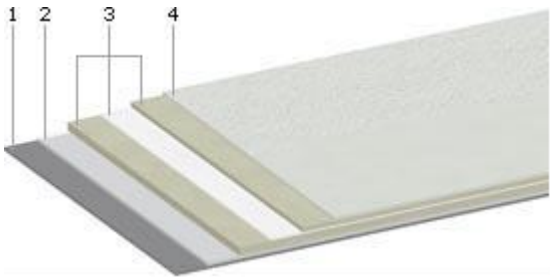
Recipe 808/2 is pre-dispersed by a pin squeegee and evened by a smoothing trowel. This formulation is especially suitable for floors in coolers and freezers down to - 86°F (-30^{0}C). For increasing the pressure resistance and grip, the flow coating is being broadcasted to excess with quartz sand - size 15 - 35 mesh (0.6-1.2mm). Remove the surplus sand before applying the topcoat.

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
D – 08223 Falkenstein / Germany
Telefon: +49 (0) 37 45 / 744 32-0
Telefax: +49 (0) 37 45 / 744 32-27
Email: info@plasti-chemie.de
Internet: www.plasti-chemie.de

Plasticoate® 808 coatings should be sealed with Plasticoate® 528 (clear or pigmented) or followed by another coating layer.

Recipe 808N/3 is used for casting interior and exterior pre-primed movement joints. Especially observe the fact that the casting compound will only form a compound on the joint's side flanks if this has carefully been primed with Plasticoate® 112 N.
In recipe 808/4 the resin Plasticoate® 808 is mixed with Plasticoate® PET s/l Filler. It serves for producing highly elastic, waterproof sealing layers on car park decks, balconies, roofs and terraces. The Plasticoate® 808 resin and PET s/l Filler mix is applied to the surface that has been primed with Plasticoate® 112 N or 116, then compounded by a polyester fleece and coated wet-in-wet.

System structure 808N/4:



1. substrate
2. primer Plasticoate® 112N or 116
3. waterproofing with Plasticoate® 808 with s/lPET filler, Polyester fleece
4. topcoat with Plasticoate® 528 N (optional)

Pot life and curing times depending on temperature:

Further coating layers with Plasticoate® must only be applied after the previous layers have completely cured.

Temperature [°F]**	Hardener [Vol.-%] *	Pot life [min]	Curing time [min]
+ 41	5	~ 25	~ 70
+ 50	4	~ 25	~ 60
+ 68	3	~ 20	~ 45
+ 86	2	~ 25	~ 50

* Hardener quantity calculated on pure resin (Hardener 50 W)
** Temperature indications correspond to resin, floor and air temperature

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
D – 08223 Falkenstein / Germany
Telefon: +49 (0) 37 45 / 744 32-0
Telefax: +49 (0) 37 45 / 744 32-27
Email: info@plasti-chemie.de
Internet: www.plasti-chemie.de

Attention: Hardener quantities below 1 % may cause polymerisation failures!

Thinner: up to 5 Vol.-% Plasticoate® Accelerator 440

Processing below 32°F (0°C): Please use Plasticoate® Accelerator B101!
Dosage according to data sheet Plasticoate® Accelerator B101

Hints: To be applied only on primed surfaces! Good ventilation during processing ensures good curing.

Characteristic data of finished coat:

Plasticoate® 808 resin samples tested at 68°F, clear resin, cured with 3% hardener 50W.		
Shore D Hardness	EN ISO 868	33
Tensile strength	EN ISO 527	12 MPa
Elongation (max strength)	EN ISO 527	200 %
Elongation (rapture)	EN ISO 527	402 %
E-module	EN ISO 527	150 MPa
Plasticoate® 808 samples tested at 4°F		
Shore A Hardness	EN ISO 868	17
Tensile strength	EN ISO 527	21 MPa
Elongation (max strength)	EN ISO 527	50 %
Elongation (rapture)	EN ISO 527	88.9 %
E-module	EN ISO 527	455 MPa

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
D – 08223 Falkenstein / Germany
Telefon: +49 (0) 37 45 / 744 32-0
Telefax: +49 (0) 37 45 / 744 32-27
Email: info@plasti-chemie.de
Internet: www.plasti-chemie.de

Storage: The handling-regulations for highly flammable materials apply to methacrylate resins. Plasticoate® resins are to be stored cool, protected against direct sunlight and preferably at temperatures of 59 - 68 °F. During storage paraffin – particles and filler – materials may precipitate. **Thus before processing, containers have to be stirred up well.** Please mind the advice on our safety data sheets.

VbF: A I

GISCODE: RMA 10

Customs Number: 320 820 10

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
D – 08223 Falkenstein / Germany
Telefon: +49 (0) 37 45 / 744 32-0
Telefax: +49 (0) 37 45 / 744 32-27
Email: info@plasti-chemie.de
Internet: www.plasti-chemie.de